Delphine Destoumieux-Garzon

List of Publications by Year
in descending order

69 papers	5,725 citations	70961 41 h-index	98622 67 g-index
75 all docs	75 docs citations	75 times ranked	5378 citing authors

#	Article	IF	Citations
1	The One Health Concept: 10â€‰Years Old and a Long Road Ahead. Frontiers in Veterinary Science, 2018, 5, 14.	0.9	383
2	Penaeidins, a New Family of Antimicrobial Peptides Isolated from the Shrimp Penaeus vannamei (Decapoda). Journal of Biological Chemistry, 1997, 272, 28398-28406.	1.6	360
3	Microcins, gene-encoded antibacterial peptides from enterobacteria. Natural Product Reports, 2007, 24, 708.	5.2	326
4	Human Î²-Defensin-2 Production in Keratinocytes is Regulated by Interleukin-1, Bacteria, and the State of Differentiation. Journal of Investigative Dermatology, 2002, 118, 275-281.	0.3	293
5	Crustacean Immunity. Journal of Biological Chemistry, 2001, 276, 47070-47077.	1.6	288
6	Immune-suppression by OsHV-1 viral infection causes fatal bacteraemia in Pacific oysters. Nature Communications, 2018, 9, 4215.	5.8	217
7	Use of OmpU porins for attachment and invasion of <i>Crassostrea gigas</i> immune cells by the oyster pathogen <i>Vibrio splendidus</i>. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 2993-2998.	3.3	173
8	The COVID-19 pandemic and global environmental change: Emerging research needs. Environment International, 2021, 146, 106272.	4.8	157
9	Penaeidins, a family of antimicrobial peptides from penaeid shrimp (Crustacea, Decapoda). Cellular and Molecular Life Sciences, 2000, 57, 1260-1271.	2.4	156
10	Recombinant expression and range of activity of penaeidins, antimicrobial peptides from penaeid shrimp. FEBS Journal, 1999, 266, 335-346.	0.2	154
11	Siderophore Peptide, a New Type of Post-translationally Modified Antibacterial Peptide with Potent Activity. Journal of Biological Chemistry, 2004, 279, 28233-28242.	1.6	138
12	The emergence of Vibrio pathogens in Europe: ecology, evolution, and pathogenesis (Paris, 11â€“12th) Tj ETQq0 0 0 rgBT /Overlock 10	1.5	136
13	Two Enzymes Catalyze the Maturation of a Lasso Peptide in Escherichia coli. Chemistry and Biology, 2007, 14, 793-803.	6.2	130
14	Evidence of a bactericidal permeability increasing protein in an invertebrate, the<i>Crassostrea gigas Cg</i>-BPI. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 17759-17764.	3.3	124
15	The ironâ€“siderophore transporter FhuA is the receptor for the antimicrobial peptide microcin J25: role of the microcin Val11â€“Pro16 Î²-hairpin region in the recognition mechanism. Biochemical Journal, 2005, 389, 869-876.	1.7	120
16	Insight into Invertebrate Defensin Mechanism of Action. Journal of Biological Chemistry, 2010, 285, 29208-29216.	1.6	117
17	Big Defensins, a Diverse Family of Antimicrobial Peptides That Follows Different Patterns of Expression in Hemocytes of the Oyster Crassostrea gigas. PLoS ONE, 2011, 6, e25594.	1.1	103
18	Innate Immune Responses of a Scleractinian Coral to Vibriosis. Journal of Biological Chemistry, 2011, 286, 22688-22698.	1.6	101

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19	Antimicrobial peptides in marine invertebrate health and disease. Philosophical Transactions of the Royal Society B: Biological Sciences, 2016, 371, 20150300.	1.8	101
20	Isolation and Characterization of Two Members of the Siderophore-Microcin Family, Microcins M and H47. Antimicrobial Agents and Chemotherapy, 2010, 54, 288-297.	1.4	99
21	Penaeidins, antimicrobial peptides of shrimp: a comparison with other effectors of innate immunity. Aquaculture, 2000, 191, 71-88.	1.7	98
22	The major outer membrane protein OmpU of <i>Vibrio splendidus</i> contributes to host antimicrobial peptide resistance and is required for virulence in the oyster <i>Crassostrea gigas</i>. Environmental Microbiology, 2010, 12, 951-963.	1.8	98
23	The new insights into the oyster antimicrobial defense: Cellular, molecular and genetic view. Fish and Shellfish Immunology, 2015, 46, 50-64.	1.6	89
24	Antimicrobial Histones and DNA Traps in Invertebrate Immunity. Journal of Biological Chemistry, 2014, 289, 24821-24831.	1.6	87
25	An intimate link between antimicrobial peptide sequence diversity and binding to essential components of bacterial membranes. Biochimica Et Biophysica Acta - Biomembranes, 2016, 1858, 958-970.	1.4	86
26	Microcin J25, from the Macrocyclic to the Lasso Structure: Implications for Biosynthetic, Evolutionary and Biotechnological Perspectives. Current Protein and Peptide Science, 2004, 5, 383-391.	0.7	83
27	The Antimicrobial Defense of the Pacific Oyster, Crassostrea gigas. How Diversity may Compensate for Scarcity in the Regulation of Resident/Pathogenic Microflora. Frontiers in Microbiology, 2012, 3, 160.	1.5	80
28	NMR structure of <i>r</i>ALFâ€<i>Pm3</i>, an antiâ€lipopolysaccharide factor from shrimp: Model of the possible lipid Aâ€binding site. Biopolymers, 2009, 91, 207-220.	1.2	76
29	Outer membrane vesicles are vehicles for the delivery of <scp><i>V</i></scp><i>ibrio tasmaniensis</i> virulence factors to oyster immune cells. Environmental Microbiology, 2015, 17, 1152-1165.	1.8	75
30	Functional Divergence in Shrimp Anti-Lipopolysaccharide Factors (ALFs): From Recognition of Cell Wall Components to Antimicrobial Activity. PLoS ONE, 2013, 8, e67937.	1.1	73
31	Microcin E492 antibacterial activity: evidence for a TonB-dependent inner membrane permeabilization on Escherichia coli. Molecular Microbiology, 2003, 49, 1031-1041.	1.2	72
32	The<i>dlt</i>Operon of<i>Bacillus cereus</i>Is Required for Resistance to Cationic Antimicrobial Peptides and for Virulence in Insects. Journal of Bacteriology, 2009, 191, 7063-7073.	1.0	72
33	<i>Vibrio</i>â€“bivalve interactions in health and disease. Environmental Microbiology, 2020, 22, 4323-4341.	1.8	72
34	Species-specific mechanisms of cytotoxicity toward immune cells determine the successful outcome ofVibrioinfections. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 14238-14247.	3.3	62
35	Expression, tissue localization and synergy of antimicrobial peptides and proteins in the immune response of the oyster Crassostrea gigas. Developmental and Comparative Immunology, 2012, 37, 363-370.	1.0	54
36	<i>csrB</i> Gene Duplication Drives the Evolution of Redundant Regulatory Pathways Controlling Expression of the Major Toxic Secreted Metalloproteases in <i>Vibrio tasmaniensis</i> LGP32. MSphere, 2018, 3, .	1.3	52

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37	Focus on modified microcins: structural features and mechanisms of action. Biochimie, 2002, 84, 511-519.	1.3	51
38	Parasitism of Iron-siderophore Receptors of Escherichia Coli by the Siderophore-peptide Microcin E492m and its Unmodified Counterpart. BioMetals, 2006, 19, 181-191.	1.8	51
39	A Sustained Immune Response Supports Long-Term Antiviral Immune Priming in the Pacific Oyster, Crassostrea gigas. MBio, 2020, 11, .	1.8	49
40	Thermolysin-linearized microcin J25 retains the structured core of the native macrocyclic peptide and displays antimicrobial activity. FEBS Journal, 2002, 269, 6212-6222.	0.2	48
41	The Pacific Oyster Mortality Syndrome, a Polymicrobial and Multifactorial Disease: State of Knowledge and Future Directions. Frontiers in Immunology, 2021, 12, 630343.	2.2	47
42	Copper homeostasis at the host vibrio interface: lessons from intracellular vibrio transcriptomics. Environmental Microbiology, 2016, 18, 875-888.	1.8	45
43	A hemocyanin-derived antimicrobial peptide from the penaeid shrimp adopts an alpha-helical structure that specifically permeabilizes fungal membranes. Biochimica Et Biophysica Acta - General Subjects, 2016, 1860, 557-568.	1.1	45
44	Prevalence and polymorphism of a mussel transmissible cancer in Europe. Molecular Ecology, 2022, 31, 736-751.	2.0	42
45	Cecropins as a marker of Spodoptera frugiperda immunosuppression during entomopathogenic bacterial challenge. Journal of Insect Physiology, 2012, 58, 881-888.	0.9	39
46	Insight into Siderophore-Carrying Peptide Biosynthesis: Enterobactin Is a Precursor for Microcin E492 Posttranslational Modification. Antimicrobial Agents and Chemotherapy, 2007, 51, 3546-3553.	1.4	36
47	The Ancestral N-Terminal Domain of Big Defensins Drives Bacterially Triggered Assembly into Antimicrobial Nanonets. MBio, 2019, 10, .	1.8	35
48	Functional Insights From the Evolutionary Diversification of Big Defensins. Frontiers in Immunology, 2020, 11, 758.	2.2	35
49	Inefficient immune response is associated with microbial permissiveness in juvenile oysters affected by mass mortalities on field. Fish and Shellfish Immunology, 2018, 77, 156-163.	1.6	32
50	The paralytic shellfish toxin, saxitoxin, enters the cytoplasm and induces apoptosis of oyster immune cells through a caspase-dependent pathway. Aquatic Toxicology, 2017, 190, 133-141.	1.9	27
51	Massive Gene Expansion and Sequence Diversification Is Associated with Diverse Tissue Distribution, Regulation and Antimicrobial Properties of Anti-Lipopolysaccharide Factors in Shrimp. Marine Drugs, 2018, 16, 381.	2.2	27
52	Resistance to Antimicrobial Peptides in Vibrios. Antibiotics, 2014, 3, 540-563.	1.5	24
53	Spodoptera frugiperda X-Tox Protein, an Immune Related Defensin Rosary, Has Lost the Function of Ancestral Defensins. PLoS ONE, 2009, 4, e6795.	1.1	18
54	Getting out of crises: Environmental, social-ecological and evolutionary research is needed to avoid future risks of pandemics. Environment International, 2022, 158, 106915.	4.8	18

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55	Oyster Farming, Temperature, and Plankton Influence the Dynamics of Pathogenic Vibrios in the Thau Lagoon. Frontiers in Microbiology, 2018, 9, 2530.	1.5	16
56	Alterins Produced by Oyster-Associated Pseudoalteromonas Are Antibacterial Cyclolipopeptides with LPS-Binding Activity. Marine Drugs, 2020, 18, 630.	2.2	15
57	Contribution of Viral Genomic Diversity to Oyster Susceptibility in the Pacific Oyster Mortality Syndrome. Frontiers in Microbiology, 2020, 11, 1579.	1.5	14
58	Vibrio splendidus Oâ€antigen structure: a tradeâ€off between virulence to oysters and resistance to grazers. Environmental Microbiology, 2020, 22, 4264-4278.	1.8	14
59	Field enhanced bacterial sample stacking in isotachophoresis using wide-bore capillaries. Journal of Chromatography A, 2012, 1268, 180-184.	1.8	12
60	Class II Microcins. , 2011, , 309-332.		11
61	Environmental microbiology as a mosaic of explored ecosystems and issues. Environmental Science and Pollution Research, 2015, 22, 13577-13598.	2.7	10
62	Immunity in Molluscs. , 2016, , 417-436.		10
63	Resistance of the oyster pathogen <i>Vibrio tasmaniensis</i> LGP32 against grazing by <i>Vannella</i> sp. marine amoeba involves Vsm and CopA virulence factors. Environmental Microbiology, 2020, 22, 4183-4197.	1.8	10
64	Taking Advantage of Electric Field Induced Bacterial Aggregation for the Study of Interactions between Bacteria and Macromolecules by Capillary Electrophoresis. Analytical Chemistry, 2015, 87, 6761-6768.	3.2	9
65	On the need for integrating cancer into the One Health perspective. Evolutionary Applications, 2021, 14, 2571-2575.	1.5	9
66	Post-Translational Modification and folding of A Lasso-Type Gene-Encoded Antimicrobial Peptide Require Two Enzymes only in Escherichia coli. Advances in Experimental Medicine and Biology, 2009, 611, 35-36.	0.8	7
67	Identification of a Vibrio strain producing antimicrobial agents in the excretory organs of Nautilus pompilius (Cephalopoda: Nautiloidea). Reviews in Fish Biology and Fisheries, 2007, 17, 197-205.	2.4	2
68	Vibrios â€“ from genes to ecosystems. Environmental Microbiology, 2020, 22, 4093-4095.	1.8	2
69	Biosynthesis of Siderophore-Peptides, A Class of Potent Antimicrobial Peptides from Enterobacteria, Requires Two Precursors. Advances in Experimental Medicine and Biology, 2009, 611, 33-34.	0.8	0